

What is Claimed is:

1. A preparation method of immunoglobulin Y (IgY) against dental caries bacteria, including the steps of preparing streptococcus mutans antigens which are streptococcus streptococcus mutans type c and type d as antigen bacteria, immunizing 5 hens, and extracting IgY by water dilution, DEAE-Sephadex A50 and Sephadex G200 chromatography.
2. The preparation method as recited in claim 1 wherein said streptococcus mutans type c and d as antigen bacteria are mixed by ratio 2:1.
3. The preparation method as recited in claim 1 wherein in the extracting step 10 further includes the steps of extracting clued IgY by water dilution, adding 4-6 fold distilled water into even yolk by stirring, adjusting pH to 4.5-6.5, stand at 3-5°C, and centrifuging at high speed for 20 minutes
4. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.03-0.1M of NaCl is used for DEAE-Sephadex A50 15 chromatography.
5. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.07M of NaCl is used for DEAE-Sephadex A50 chromatography.
6. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.05-0.2M of NaCl is used for Sephadex G200 20 chromatography.
7. The preparation method as recited in claim 1 wherein an eluant which is a phosphate buffer containing 0.1M of NaCl is used for Sephadex G200 chromatography.
- 25 8. A combination against dental caries bacteria, comprising an IgY to dental caries bacteria and, at last, one of both potassium sorbate and sodium benzoate.

9. The combination as recited in claim 8 wherein an additive amount of said IgY is at least 0.05% and an additive amount potassium sorbate and sodium benzoate is 0.005-0.02%.

10. The combination as recited in claim 9 wherein an additive amount of said IgY is 0.05-0.2%.

11. The combination as recited in claim 8 wherein said combination is packaged in pocket atomizer for spraying usage.

12. The combination as recited in claim 8 wherein said combination is made in liquid form and packaged in a sucking bottle.

add
IgY
PB
C